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The Maine Data Quality Experience

Systematic/Symptomatic View

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The Maine Data Quality Experience

- Overview
 - Strategies
 - Tools

The Path to Good Data Lies Through a Mine Field

- The three most important items to achieve high quality data
 - Best Asset: People
 - Greatest Hindrance: People
 - Most Important Emphasis: People

Strategy 1: We Are Only Human

- Motivate personnel
- Make them care about data
- Make data useful to them personally
- Make the data essential to them
 - Useful Product
 - Show to others

Useful Data Product

Aects
Action Data
Entry
Screen

Microsoft Access - [ACTION RECORD]

File Edit View Insert Format Records Tools Window Help

AECTS: Action Data Form Select Action Edit Action Add Action Write New Report Go To Facilities

FACILITY NAME: INTERNATIONAL PAPER COMP LICENSE NO.: 203 TID: 012300700004
CITY: JAY ACTION NO.: 1851

CONTACT: Thomas Saviello LOCATION: RILEY ROAD
TELEPHONE: 897-3431
DATE: 5/15/2003
INSPECTOR: Roy Rike OFFICE: CM
ACTION: FULL ONSITE COMPLIANCE INSPECTIO ACCOMPANY: (enter key = new line)
PENALTY: Vicki Gammon
ACTION POLLUTANT:
REASON: #4, and final, in a series of partial inspections combined into a full compliance evaluation. All equipment and emission units listed in the Air Emission License have been observed. The three previous inspections were conducted 07/29/02, 09/25/02, and 03/10/03.

Action Air Program Open Final Inspection Report

Results Recommendation AFS Memo
RESULT: IN COMPLIANCE

Record: 1 of 1 (Filtered)
Primary Facility Compliance Contact: ctpc

Start | [Icons] | [Taskbar] | 8:37 AM

Useful Data Product

Inspection
Report
Document
Ready For
Mailing

BUREAU OF AIR QUALITY FACILITY INSPECTION REPORT		
INTERNATIONAL PAPER COMPANY		Inspection No. 1851
CONTACT:	Thomas Satchell	LICENSE NO.: 203 and current amendments and modifications
LOCATION:	RILEY ROAD JAY, MICHIGAN 49734	
FACILITY DESCRIPTION:	PAPERMILLS	INSPECTOR: Ray Rife
INSPECTION DATE:	5/15/2003	PARTICIPANTS: Wick Gannon
ACTIVITY TYPE:	FULL ON-SITE COMPLIANCE INSPECTION	
REASON FOR INSPECTION:		
<p>#4, and final, in a series of partial inspections combined in a full compliance evaluation. All equipment and emission units listed in the Air Emission License have been observed. The three previous inspections were conducted 07/25/02, 09/25/02, and 03/10/03.</p> <p><u>Other Emission Units covered:</u> Bulk Handling Systems, Wash Dryer, RTO System, Water Plant Furnace, "Big Daddy" (generator), Steam Jenny Fire Pump, Print Lab, SICES, #4 PM Dryers, Calendering Roll, and Trim Conveying System.</p>		

EMISSION SOURCE#: RTO SYSTEM		
<p>The RTO System was in good operating condition at the time of the inspection. All required operating parameter information was being collected (temperature, 1534.7 deg. F; pH, SS at 1.07). Uptime for the first quarter of 2003 was 96.2% (License Limit 95%).</p>		
RESULT: IN COMPLIANCE		
CONCLUSION:		
<p>From the items observed during this inspection (units listed as "Other Emission Units" on the Air Emission License), International Paper is operating its Androsogoue mill in compliance with the conditions of its Air Emission License.</p>		

Useful Data Product

Public
Access of
Information



U.S. Environmental Protection Agency

Enforcement & Compliance History Online (ECHO)

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[EPA Home](#) > [Compliance and Enforcement](#) > [ECHO](#) > [Search Air Data](#) > Detailed Facility Report

Detailed Facility Report

[Report Error](#) [Data Dictionary](#)

For Public Release - Unrestricted Dissemination Report Generated on 06/30/2003
US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Data in this report are under a data quality review. Select the Report Error button to report an error.



Facility Permits and Identifiers

[Data Dictionary](#)

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip
	FRS	110000581415	INTERNATIONAL PAPER	RILEY ROAD	JAY	ME	04239
CAA	AFS	2300700004	INTERNATIONAL PAPER COMPANY	RILEY ROAD	JAY	ME	04239
CWA	PCS	ME0001937	INTERNATIONAL PAPER COMPANY	ANDROSCOGGIN MILLRILEY ROAD	JAY	ME	04239
RCRA	RCR	MED001095470	INTERNATIONAL PAPER CO	RILEY RD ANDROSCOGGIN MILL	JAY	ME	04239
RCRA	RCR	MED985466366	INTERNATIONAL PAPER CO	RILEY RD ANDROSCOGGIN MILL RD	JAY	ME	04239
EP313	TRI	04239NTRNRILEY	INTERNATIONAL PAPER	RILEY RD.	JAY	ME	04239

Facility Characteristics

[Data Dictionary](#)

Statute	Source ID	Facility Status	Permit Expiration Date	Lat/Long	Indian Lands?	Primary SIC	Secondary SICs
	110000581415			LRT lat: 44.5061 LRT long: -70.2392	NA		
CAA	2300700004	Operating, Major (Fed. Rep.)			NA	2620	2621
CWA	ME0001937	Major Active	05/1997	lat: 44.5061 long: -70.2392	NA	2621	

Strategy 2: We Are All Bozos On This Bus

- “There are only two things that are infinite. The universe and human stupidity. And I’m not sure about the universe!” Einstein
- Fool Proof the System
 - Limit data entry to items that will be used
 - Limit the use of codes
 - Built-in safeguards against illogical data

Strategy 3: If All Else Fails, Read The Directions

- Guidance/Manuals /SOPs
 - Written from the point of view of the user.
- Easily accessible and useable.
 - Make available on-line
- Edit the manual frequently

DRAFT, DRAFT, DRAFT



Air Emission Compliance Tracking System (AECTS)

Version 3.1

September 5 October 16, 2002

Help Manual & Instructions

5. Street Location: enter the 911 address or actual location; this may be different from the mailing address.
 6. Mailing Address: enter this if different from the street location; includes post office boxes, main office address, etc.
 7. State: enter the 2-letter state abbreviation (default is ME)
 8. Zip Code: enter either the 5-digit or the 9-digit zip code
 9. Area code: include the 3-digit area code
 10. Telephone: enter the 7-digit telephone number. Do not enter the hyphen; it will appear automatically.
 11. Contact: enter the names of facility managers, foremen, boiler operators, etc., whom you contacted during the inspection.
 - ~~12. Ind Descrb: enter a brief description of the industry (This entry has been removed from the screen temporarily but will return soon.)~~
 - ~~13.12. SIC: Standard Industrial Classification – select the industry category, then the industry description from the pull-down menus. The appropriate 4-digit numbers will be placed in the database but will not appear on the screen.~~
 - ~~14.13. Regional office: pull-down menu from which to choose the Air Bureau regional office, Select the appropriate office and press enter or double-click.~~
 - ~~15.14. GOVFACT: pull-down menu that describes facility ownership, click on your choice and press enter. (All Other Facilities Not Owned By The Gov. is the default)~~
 16. Sub-forms on the bottom half of the screen (Diagram 6)
- Please refer to the description and instructions under section **3A**.

Action Summary - This field will be blank for new facilities.

STANDARD OPERATING PROCEDURE

Operation Title: Bureau of Air Quality On-Site Compliance Action SOP

Originator Name: Jim Gramlich and Louis Fontaine

PURPOSE Establishing standardized methods of preparing, performing, documenting, tracking and storing on-site compliance actions at facilities licensed to emit air pollution in order to attain the highest quality of Quality Assurance, Quality Control and Quality Improvement (QA/QC/QI). This document describes the procedure for inspecting licensed facilities for Maine DEP's Air Bureau staff. This SOP sets forth guidelines which the Air Bureau generally expects its staff to follow under typical circumstances. However, it may be appropriate to vary from the guidelines in particular situations. This document shall not be construed as setting forth mandatory procedures that staff must follow in order to establish a violation.

STANDARD OPERATING PROCEDURE

Operation Title: Bureau of Air Quality On-Site Compliance Action SOP

Originator Name: Jim Gramlich and Louis Fontaine

5.3 COMPLIANCE ACTION DOCUMENTATION

5.3.1 COMPLIANCE ACTION REPORT

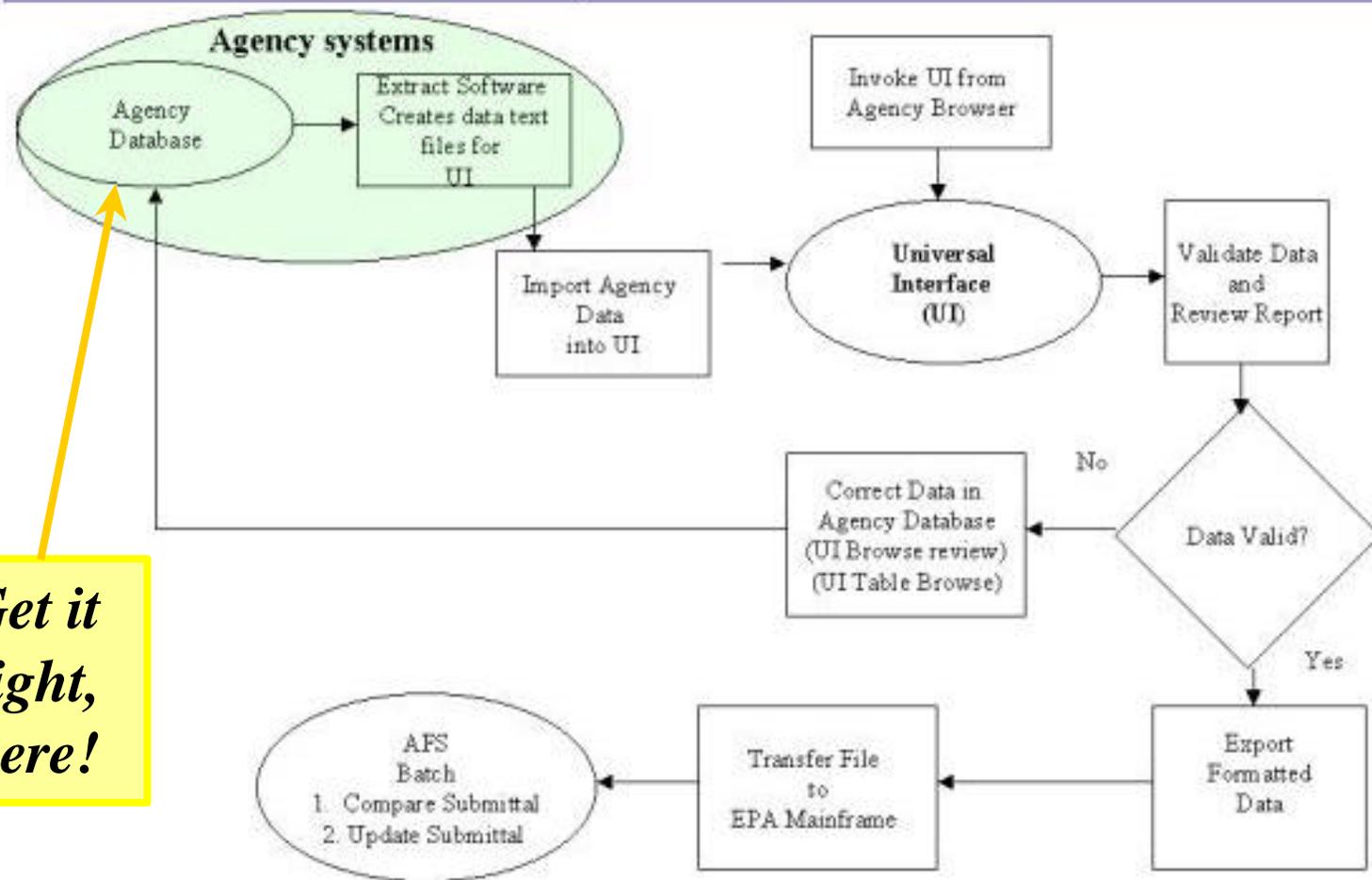
5.3.1.1 RECORD KEEPING All compliance actions will be entered into the AECTS program. AECTS will track and document actions electronically. The program also formats inspection reports. The inspection report function will be used to standardize all future inspection reports. The Bureau Compliance Supervisor uses the information in AECTS to update EPA's electronic compliance database on a monthly basis.

Strategy 4: The Need for Quality Data Is Universal

- The Universal Interface Quality Control Checks
 - Guards against some duplicate entries
 - Makes certain that required data is there.
- Warning: The more that you handle the data, the dirtier it can get

Universal Interface Business Model

A Complete UI Process Flow



Get it right, here!

UI Data Validation Report

Validation Report - Microsoft Internet Explorer provided by Environmental Protection, Maine

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print W

Address <http://mainedep.tkiweb.com/ui/ValRptDisplay.asp> Go

[Return to the Validation Menu](#)

ERROR/WARNING SUMMARY:

===== Errors =====

Err	Message	Count
*63	No Comment Text To Process	55

Total # of Errors: 55

STATE/COUNTY/COMPLIANCE ID: 23 001 00005

NAME: MID-MAINE WASTE ACTION CORPORATION

STREET: 1 GOLDTHWAITE ROAD CITY CODE/NAME: AUBURN

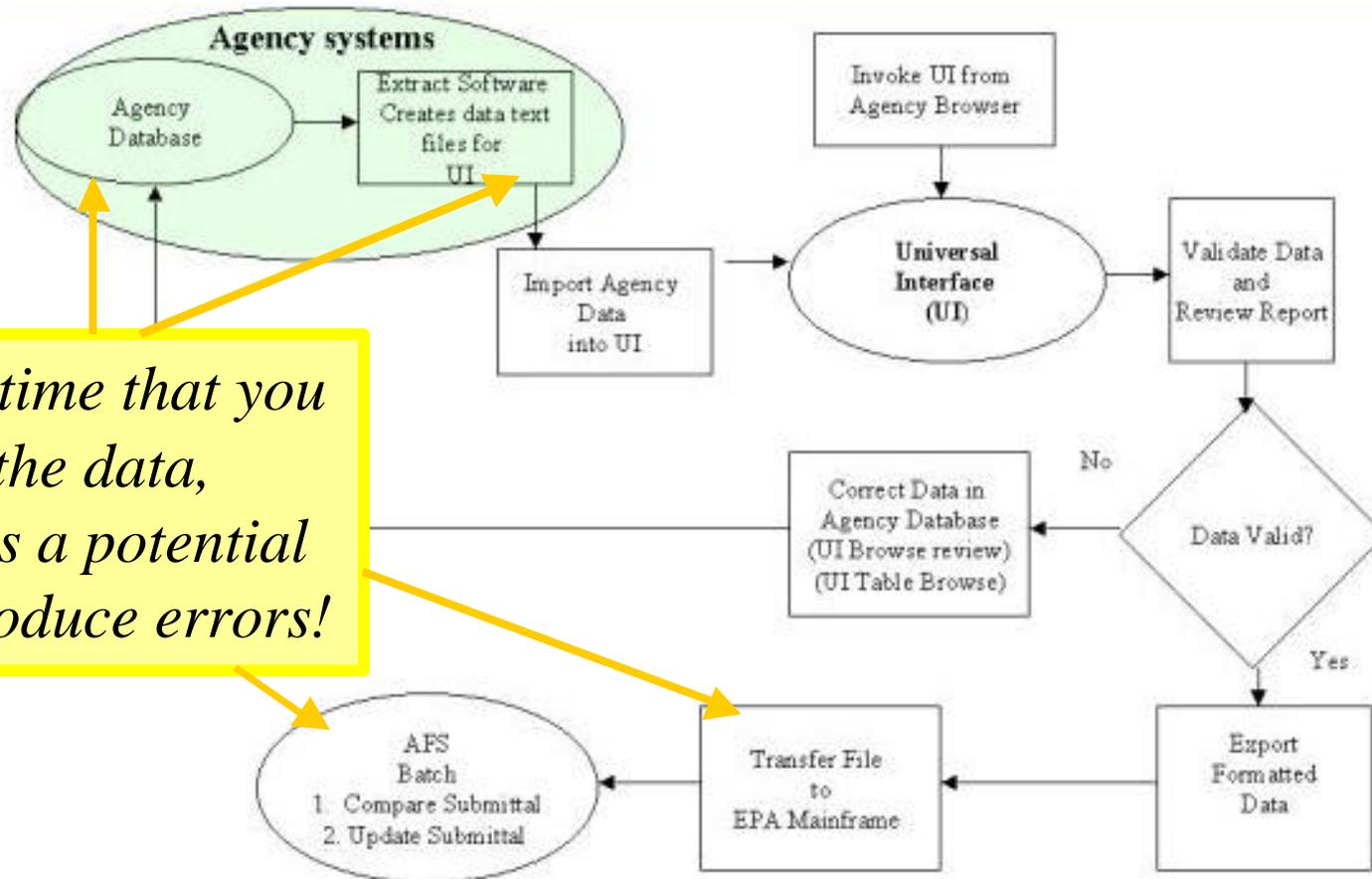
ZIP: 04211 SIC CODE: 4959 GOVT.FACILITY CODE: 0

NAICS CODE:

Start | Internet | Calendar - Microso... | Microsoft PowerPo... | Validation Rep... | 10:59 AM



“Danger, Will Robinson!”



Every time that you touch the data, there is a potential to introduce errors!

Strategy 5: The Final Frontier

- Boldly Go Where No Manager Has Gone Before
 - Build AFS Reports to Compare Against the Data at AECTS
- State data does not need to be identical to AFS
- State is not the only one messing around with AFS

The Path to Good Data Lies Through a Mine Field

